

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/029622 A2

(51) International Patent Classification⁷: H01M 8/02,
8/04, B60H 1/00

[JP/JP]; 1-43-20, Oooka, Minami-ku, Yokohama-shi,
Kanagawa, 2320061 (JP).

(21) International Application Number:
PCT/JP2004/012031

(74) Agent: GOTO, Masaki; Shoyu-Kaikan 3-1, Kasumi-
gaseki 3-chome, Chiyoda-ku, Tokyo, 1000013 (JP).

(22) International Filing Date: 16 August 2004 (16.08.2004)

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003-328645 19 September 2003 (19.09.2003) JP

(71) Applicant (for all designated States except US): NISSAN
MOTOR CO., LTD. [JP/JP]; 2, Takara-cho, Kana-
gawa-ku, Yokohama-shi, Kanagawa, 2210023 (JP).

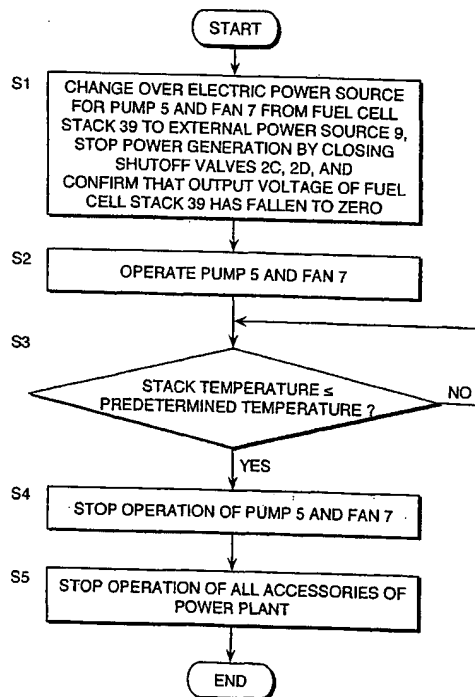
(72) Inventor; and

(75) Inventor/Applicant (for US only): OMA, Atsushi

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: FUEL CELL POWER PLANT



(57) Abstract: A fuel cell power plant comprises a fuel cell (37) which generates power by an electrochemical reaction between hydrogen supplied to an anode (32A) and oxygen supplied to a cathode (32B) via an electrolyte membrane (32). After the fuel cell (37) has stopped power generation, a cooling device (40, 41) condenses water vapor which has accumulated around the anode (32A). The condensed water prevents hydrogen remaining at the anode (32A) after the fuel cell (37) stops generating power, from burning. The cooling device (40, 41) performs cooling until the fuel cell (37) falls to a predetermined temperature, and then stops operating.

WO 2005/029622 A2

Best Available Copy



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— without international search report and to be republished
upon receipt of that report

Best Available Copy